

**ABSTRACT OF THE DISCLOSURE**

A medical device for implantation in a vessel is disclosed. The medical device comprises at least one anastomotic member, at least partially interposing a non-woven liner of electrospun fibers and a non-woven cover of electrospun fibers. The at least one anastomotic member is designed for engaging at least one end of the medical device to a wall of the vessel upon implantation of the medical device within the vessel.